

THE VASCULAR FLORA OF THREE WILDLIFE REFUGES IN  
CAMERON PARISH, LOUISIANA

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ABSTRACT

Lacassine National Wildlife Refuge and Sabine National Wildlife Refuge are located in Cameron Parish while Rockefeller Wildlife Refuge and Game Preserve is situated in the southeast corner of Cameron Parish and the southwest corner of Vermilion Parish. The vascular flora of these three refuges (or portions which occur in Cameron Parish) was surveyed and collections were made from September 1983 to April 1985. Voucher specimens of these collections are housed in the Northeast Louisiana University Herbarium. Specimens previously collected and housed in the herbarium at Northeast Louisiana University were examined and have been included in this survey. Records from pertinent literature are also included. Names of the 586 species representing 119 families found on at least one of the three refuges have been compiled into an annotated list. The list includes the number of species in each refuge for each category and a voucher or reference for each refuge citation.

KEY WORDS: Floristics, wildlife refuges, Cameron Parish, Louisiana.

INTRODUCTION

Cameron Parish, in the southwesternmost corner of Louisiana, includes Lacassine National Wildlife Refuge, a large portion of Rockefeller Wildlife

Refuge and Game Preserve and Sabine National Wildlife Refuge (Figure 1). Lacassine is located in the northeast part of the parish, Rockefeller in the southeast, and Sabine in the west and central portion. The authors have restricted the present survey of Rockefeller Wildlife Refuge to those portions occurring in Cameron Parish, primarily as a result of incomplete sampling of the Vermilion Parish portion. A fourth refuge, Cameron Prairie National Wildlife Refuge located in the central portion of the parish, was established December 29, 1988 and was therefore not included in this survey (Figure 1). The authors are hopeful that the floristic composition of Cameron Prairie (9,621 acres; Yakupzack, pers. comm., letter 1989) can be documented in the future.

With the exception of potentially destructive hurricanes, the weather in Cameron Parish is generally mild (Cameron Parish Rural Development Committee 1970; Howe, *et al.* 1935). The physiography of the parish is characterized by a geologically recent seamarsh which is situated above a Pleistocene Mississippi River Delta complex (Howe, *et al.* 1935). Other notable features of the parish are the numerous shallow lakes and the wide river valleys of the Calcasieu, Mermentau and Sabine Rivers (Howe, *et al.* 1935).

This survey represents a subset of the data obtained while conducting research on the vascular flora of Cameron Parish in its entirety (Dutton 1985; Dutton & Thomas 1990). The results of this survey are presented in a comparative format and are intended to serve as a guide to the respective flora of each refuge. Included are the results of surveys reported by Fruge (1974) on the Lacassine pool on the Lacassine National Wildlife Refuge, Spindler & Noble (1974) on the spoil banks of Superior Canal on Rockefeller Wildlife Refuge and Game Preserve, and Valentine & Rudolph (1979) on the Sabine National Wildlife Refuge. Notable individual collectors include Amy Ouchley who made significant additions to the flora of Lacassine Refuge.

## METHODS

Plant collections were made from Lacassine National Wildlife Refuge, Rockefeller Wildlife Refuge and Game Preserve and Sabine National Wildlife Refuge by the first author between September, 1983 and April, 1985. The second author has also made collections from these refuges beginning in 1968. Collections were prepared following standard herbarium procedures and voucher specimens are housed in the Northeast Louisiana University Herbarium. Allen (1980), Bailey (1949), Correll & Johnston (1970), Cronquist (1980), Godfrey & Wooten (1979; 1981), Gould (1975), Hitchcock (1950), Lasseigne (1973), Radford, *et al.* (1968), Rehder (1940), Small (1933), Thieret (1980) and Wherry (1972) were the primary references consulted for identifying specimens. Recent monographs were also consulted whenever possible. In addition, numerous problematic taxa were sent to appropriate experts for annotation.

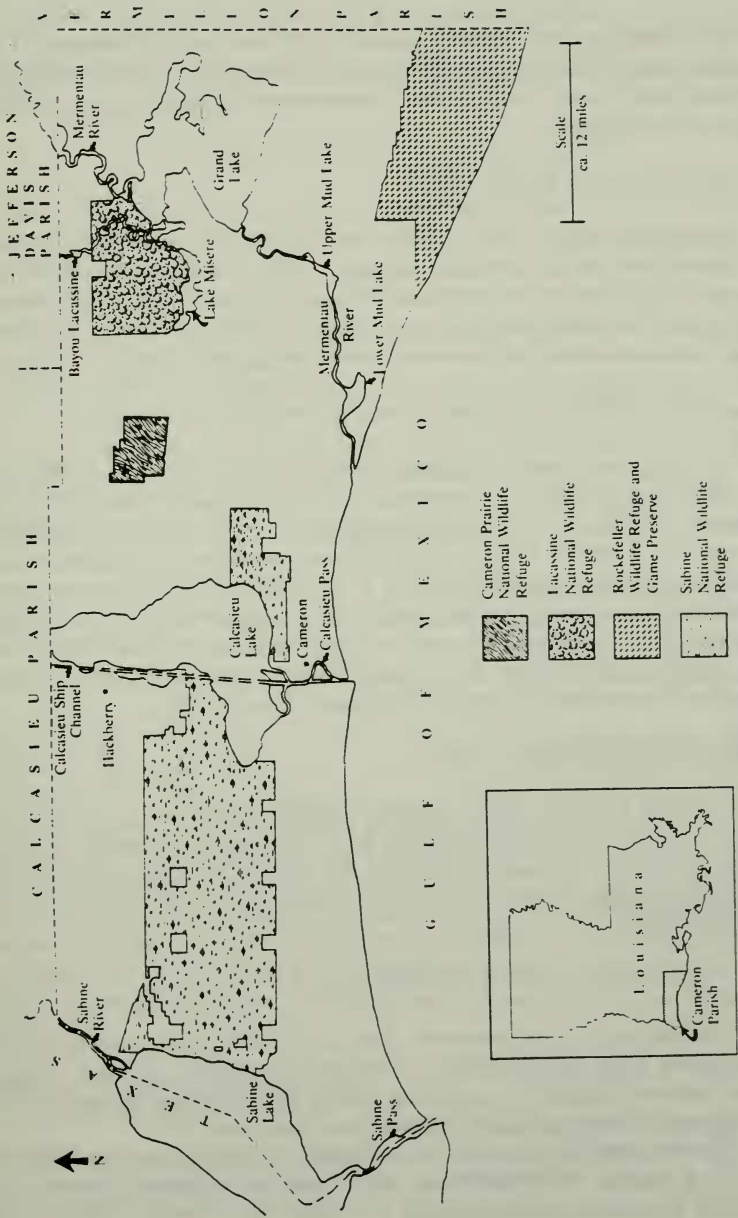


Figure 1. The wildlife refuges of Cameron Parish, Louisiana.

## WILDLIFE REFUGES

The following is a brief description of the three refuges surveyed. Local physiography in conjunction with climate and management practices employed on each refuge dictate the number of habitats and consequently species diversity on each refuge.

*Lacassine National Wildlife Refuge*

Established in 1937, Lacassine National Wildlife Refuge covers 31,776 acres (Riley & Riley 1979). Lacassine is largely freshwater marsh which has been created and is maintained by levees (Chabreck & Linscombe 1978; Howe, *et al.* 1935). Controlling water levels, farming, grazing and burning are current management practices employed on Lacassine (Laycock 1965).

*Rockefeller Wildlife Refuge and Game Preserve*

In 1920 the State of Louisiana agreed to accept, by law, property donated by the Rockefeller Foundation as a wildlife refuge (Joanen 1982). The property, 84,000 acres, is Rockefeller Refuge. The majority of Rockefeller is situated in Cameron Parish. The refuge is a combination of intermediate, brackish and saline marsh (Chabreck & Linscombe 1978). Levees and water control structures are important features of the refuge which facilitate habitat improvement, including the removal of water from impounded fresher marshes to produce annual grasses and the production of aquatics through the stabilization of water levels in the brackish marsh (Joanen 1982).

*Sabine National Wildlife Refuge*

Acquired in 1937, Sabine National Wildlife Refuge covers 142,846 acres (Riley & Riley 1979). Sabine includes fresh, intermediate, brackish and saline marsh (Chabreck & Linscombe 1978). As with the other two refuges, levees and water control structures are both conspicuous and vital for maintaining impoundments.

## RESULTS

The majority of the annotated plant list reflects Dutton and/or Thomas collections which were identified via methods previously outlined. The list also includes citations of specimens housed in the herbarium at Northeast Louisiana University and the literature mentioned above.

The list includes 586 specific or subspecific entities representing 340 genera and 119 families. Of these totals, 390 specific or subspecific entities representing 261 genera and 105 families were found on Lacassine which is 66.6%,

76.8% and 88.2% of the total of each respective category. Rockefeller includes 202 specific or subspecific entities, 147 genera, and 59 families which is 34.5%, 43.2% and 49.6% of the total of each respective category. Totals for Sabine were 335 specific or subspecific entities, 219 genera and 92 families which is 57.2%, 64.4% and 77.3% respectively.

#### ANNOTATED LIST OF VASCULAR PLANTS

The results of this vascular plant survey are grouped into ferns and fern allies, gymnosperms and angiosperms, and are listed alphabetically by family, genus and species within each category. The total number of specific or subspecific entities for each category is listed and is separated from the total number of specific or subspecific entities for each refuge in that category by a hyphen. Following the hyphen, the sequence is total number of specific or subspecific entities for Lacassine National Wildlife Refuge followed by a semicolon, the total for Rockefeller Wildlife Refuge and Game Preserve followed by a semicolon, and the total for Sabine National Wildlife Refuge (e.g. 12:6:5). Lellinger (1985) (ferns and fern allies), Mabberley (1987) (gymnosperms) and Cronquist (1981) (angiosperms) were consulted in delimiting familial concepts. Kartesz & Kartesz (1980) was the primary reference for nomenclature but recent monographs and revisions were also consulted.

The format used for each entry is "L", if present on Lacassine National Wildlife Refuge, "R" if present on Rockefeller Wildlife and Game Preserve and "S" if present on Sabine National Wildlife Refuge. Refuge citations are followed by species name, authority, common synonym(s), habitat, frequency and reference. Authorities are abbreviated according to Meikle (1984). Frequency terms used are frequent (usually encountered in the vegetational region indicated), infrequent (sporadically encountered in the vegetational region indicated) and rare (encountered in only one or two localities in the vegetational region indicated). These terms are employed based on observations by the authors. References include either a collection number of the first author (Dutton), a collection number and the initials (RDT) of the second author (Thomas) indicating a Thomas collection, the Northeast Louisiana University herbarium's acronym (NLU) (Holmgren, *et al.* 1981) or a literature citation. Literature cited entries do not include vegetational region, habitat or frequency data. Voucher specimens for Dutton and/or Thomas collections are housed at NLU.

#### FERNS AND FERN ALLIES 8 - 7:1:1 ASPLENIACEAE 1 - 1:0:0

#### AZOLLACEAE 1 - 1:0:1

L - *Asplenium platyneuron* (L.) Britton,  
Sterns & Pogg. Mixed woods, infre-  
quent. L-NLU.

L,S - *Azolla caroliniana* Willd. Aquatic,  
frequent. L-NLU; S-Valentine &  
Rudolph 1979.

## EQUISETACEAE 1 - 1:0:0

- L - *Equisetum hyemale* L. var. *affine* (Engelm.) A.A. Eaton. Sandy waste area on marsh margin. rare. L-3481.

## OPHIOGLOSSACEAE 2 - 1:1:0

- L - *Ophioglossum crotalophoroides* Walter. Sandy lawns, rare. L-NLU.  
R - *Ophioglossum petiolatum* Hook. Lawns, infrequent. R-847.

## PARKERiaceae 1 - 1:0:0

- L - *Ceratopteris pteridoides* (Hook.) Hieron. Aquatic, rare. L-NLU.

## SALVINIACEAE 1 - 1:0:0

- L - *Salvinia minima* Baker. [*S. rotundifolia* Willd.]. At the edge of a river and pond, infrequent. L-RDT 105756.

## THELYPTERIDACEAE 1 - 1:0:0

- L - *Thelypteris kunthii* (Desv.) C. Morton. [*T. normalis* (C. Chr.) Moxley]. Mixed woods. rare. L-RDT 84716.

## GYMNOSPERMS 3 - 2:0:3

## CUPRESSACEAE 1 - 0:0:1

- S - *Juniperus virginiana* L. Woods, infrequent. S-4228.

## PINACEAE 1 - 1:0:1

- L,S - *Pinus taeda* L. Mixed woods, infrequent. L-NLU; S-3935.

## TAXODIACEAE 1 - 1:0:1

- L,S - *Taxodium distichum* (L.) Rich. Marsh margins, frequent. L-2459; S-Valentine & Rudolph 1979.

## ANGIOSPERMS 575 -

381:201:331

## ACANTHACEAE 1 - 1:0:0

- L - *Justicia ovata* (Walter) Lindau var. *lanceolata* (Chapman) R. Long. [*J. lanceolata* (Chapman) Small]. Moist areas, rare. L-403.

## ACERACEAE 1 - 1:0:1

- L,S - *Acer rubrum* L. var. *drummondii* (Nutt.) Sarg. Marshy areas, infrequent. L-NLU; S-3936.

## AIZOACEAE 1 - 0:1:0

- R - *Sesuvium maritimum* (Walter) Britton. Sterns & Pogg. Marsh margins, frequent. R-2356.

## ALISMATACEAE 6 - 5:0:5

- L - *Echinodorus cordifolius* (L.) Griseb. L-Fruege 1974.

- S - *Sagittaria calycina* Engelm. var. *calycina*. [*S. montevidensis* Cham. & Schldl. ssp. *calycina* (Engelm.) Bogin]. Marsh margins, rare. S-208.

- L,S - *Sagittaria graminea* Michaux. Marsh margins, infrequent. L-NLU; S-Valentine & Rudolph 1979.

- L,S - *Sagittaria lancifolia* L. Marsh margins, frequent. L-2395; S-4041.

- L,S - *Sagittaria latifolia* Willd. Marsh margin, rare. L-3490; S-Valentine & Rudolph 1979.

- L,S - *Sagittaria platyphylla* (Engelm.) J.G. Smith. Ditches bordering marsh, frequent. L-Fruege 1974: S-3930. (Reported as *S. platyphylla* Engelm. by Fruege).

## AMARANTHACEAE 5 - 3:4:2

- R - *Alternanthera paronychioides* A. St. Hil. Fields, rare. R-975.

- L,R,S - *Alternanthera philoxeroides* (C. Martius) Griseb. Moist waste areas, frequent. L-NLU; R-2366; S-NLU.

- R,S - *Amaranthus australis* (A. Gray) J. Sauer. [*Acnida cuspidata* Bertol. ex Sprengel]. Moist waste areas and mixed woods, frequent. R-2587; S-3909.

- L - *Amaranthus gracilis* Desf. [*A. viridis* sensu auct., non L.]. Waste areas, frequent. L-RDT 83834.

L,R - *Amaranthus rudis* J. Sauer. [*Acnida tamariscina* (Nutt.) Alph. Wood] Damp waste areas, infrequent. L-183; R-3282.

ANACARDIACEAE 3 - 1:1:2

L - *Rhus copallina* L. Mixed woods, rare. L-1566.

R,S - *Toxicodendron radicans* (L.) Kuntze. [*Rhus radicans* L.]. Mixed woods, infrequent. R-4079; S-Valentine & Rudolph 1979. (Reported as *Rhus radicans* by Valentine & Rudolph).

S - *Toxicodendron tozicarium* (Salisb.) Gillis. [*Rhus tozicodendron* L.]. S-Valentine & Rudolph 1979. (Reported as *Rhus tozicodendron* by Valentine & Rudolph).

APIACEAE 14 - 13:6:5

L,S - *Centella asiatica* (L.) Urban. L-Fruge 1974; S-Valentine & Rudolph 1979.

L,R,S - *Chaerophyllum tainturieri* Hook. var. *tainturieri*. Waste areas, frequent. L-NLU; R-4123; S-NLU.

L,R,S - *Ciclospermum leptophyllum* (Pers.) Sprague. [*Apium leptophyllum* (Pers.) F. Muell. ex Benth.]. Waste areas, frequent. L-NLU; R-2270; S-4254.

L,R - *Daucus pusillus* Michaux. Roadsides, rare. L-RDT 83769; R-2310.

L,R,S - *Hydrocotyle ranunculoides* L. f. Aquatic or semi-aquatic, infrequent. L-2448; R-2364; S-4238.

L - *Hydrocotyle umbellata* L. Moist pastures and waste areas, frequent. L-2451.

R - *Hydrocotyle verticillata* Thunb. var. *verticillata*. Moist waste areas, infrequent. R-RDT 48274.

L - *Lilaeopsis carolinensis* J. Coulter & Rose. Disturbed area, rare. L-1549.

L - *Limnoscadium pinnatum* (DC.) Mathias & Constance. Pastures and waste areas, infrequent. L-NLU.

L - *Limnoscadium pumilum* (Engelm. & A. Gray) Mathias & Constance. Moist waste areas, frequent. L-NLU.

L,R,S - *Ptilimnium capillaceum* (Michaux) Raf. Pastures and waste areas, frequent. L-NLU; R-2369; S-Valentine & Rudolph 1979.

L - *Ptilimnium nuttallii* (DC.) Britton. L-Fruge 1974.

L - *Sanicula canadensis* L. Fields and mixed woods, infrequent. L-1543.

L - *Trepocarpus aethusae* Nutt. ex DC. Mixed woods, infrequent. L-NLU.

APOCYNACEAE 2 - 2:0:0

L - *Amsonia tabernaemontana* Walter. Moist waste areas, infrequent. L-NLU.

L - *Nerium oleander* L. Escape from cultivation, infrequent. L-NLU.

AQUIFOLIACEAE 2 - 1:0:2

L,S - *Ilex decidua* Walter. Mixed woods, frequent. L-408; S-3997.

S - *Ilex vomitoria* Sol. in Aiton. Mixed woods, infrequent. S-3879.

ARACEAE 4 - 4:1:2

L,R - *Colocasia antiquorum* Schott. Escape from cultivation, infrequent. L-NLU; R-2340.

L - *Orontium aquaticum* L. L-Fruge 1974.

L,S - *Peltandra virginica* (L.) Schott. Ditches and disturbed areas, frequent. L-1531, S-3966.

L,S - *Pistia stratiotes* L. Aquatic in ditches and canals, infrequent. L-RDT 83744; S-Valentine & Rudolph 1979.

ARECACEAE 1 - 0:0:1

S - *Sabal minor* (Jacq.) Pers. Mixed woods, frequent. S-4049.

ASCLEPIADACEAE 1 - 1:0:0

L - *Asclepias lanceolata* Walter. Marsh margins, rare. L-RDT 83757.

## ASTERACEAE 57 - 31:31:36

- L,S - *Acmella oppositifolia* (Lam.) Jansen var. *repens* (Walter) Jansen. [*Spilanthus americana* (Mutis) Hieron.]. Pastured wetlands, infrequent. L-401; S-4029.]
- L,R,S - *Ambrosia artemisiifolia* L. Disturbed areas, frequent. L-1551; R-722; S-3979.
- R - *Ambrosia psilostachya* DC. Disturbed areas, frequent. R-2351.
- R,S - *Ambrosia trifida* L. Disturbed areas, infrequent. R-2372; S-Valentine & Rudolph 1979.
- L,R,S - *Aster subulatus* Michaux var. *ligulatus* Shinn. Waste areas, frequent. L-NLU; R-732; S-4050.
- L,R,S - *Baccharis halimifolia* L. Marsh margins, frequent. L-2461, R-724; S-3901.
- L,S - *Bidens laevis* (L.) Britton. Sterns & Pogg. Disturbed areas, rare. L-RDT 84713; S-3913.
- L,S - *Boltonia asteroides* (L.) L'Hér. Disturbed areas, infrequent. L-Fruge 1974; S-3934.
- R,S - *Borrchia frutescens* (L.) DC. Marsh margins, frequent. R-2317; S-3876.
- L,R - *Cirsium horridulum* Michaux. [*Carduus spinosissimus* Walter]. Disturbed areas, frequent. L-Fruge 1974; R-2371.
- L,R - *Conyza bonariensis* (L.) Cronq. [*Erigeron bonariensis* L., *E. linifolius* Willd.]. Moist disturbed areas, frequent. L-RDT 84717; R-3277.
- S - *Conyza canadensis* (L.) Cronq. var. *pusilla* (Nutt.) Cronq. [*Erigeron canadensis* L. var. *pusillus* (Nutt.) J. Boivin, non H.E. Ahles, *E. pusillus* Nutt.]. Moist waste areas, infrequent. S-3988.
- L,R,S - *Eclipta prostrata* (L.) L. [*E. alba* (L.) Hassk.]. Marsh margins, frequent. L-3480; R-2363; S-3956.
- L - *Elephantopus carolinianus* Rausch. Moist pastures and roadsides, infrequent. L-NLU.
- R,S - *Erechtites hieracifolia* (L.) Raf. ex DC. Moist areas, frequent. R-2359; S-4003.
- L,R - *Erigeron philadelphicus* L. Fields and mixed woods, infrequent. L-NLU; R-1196.
- L - *Erigeron tenuis* Torrey & A. Gray. Moist roadsides, infrequent. L-NLU.
- L,R,S - *Eupatorium capillifolium* (Lam.) Small. Moist disturbed areas, frequent. L-Fruge 1974; R-4075; S-3907.
- L,R,S - *Eupatorium coelestinum* L. [*Conoclinium coelestinum* (L.) DC.]. Moist disturbed areas, frequent. L-3489; R-4078; S-3981.
- S - *Eupatorium compositifolium* Walter. Disturbed areas, infrequent. S-4035.
- L,R,S - *Eupatorium serotinum* Michaux. Disturbed areas, frequent. L-2430; R-3281; S-3888.
- L - *Euthamia gymnospermoides* E. Greene. Moist disturbed areas, infrequent. L-2432.
- S - *Euthamia leptcephala* (Torrey & A. Gray) E. Greene. [*Solidago leptcephala* Torrey & A. Gray]. Moist waste areas, infrequent. S-4010.
- R - *Euthamia tenuifolia* (Pursh) E. Greene. [*Solidago tenuifolia* Pursh.]. R-Spindler & Noble 1974. (Reported as *S. tenuifolia* by Spindler & Noble).
- R - *Gaillardia pulchella* Foug. var. *pulchella*. Sandy areas, frequent. R-3328.
- S - *Gnaphalium obtusifolium* L. Disturbed areas, infrequent. S-4012.
- L,S - *Gnaphalium pensilvanicum* Willd. Waste areas, frequent. L-2948; S-4222.
- L - *Gnaphalium purpureum* L. var. *falcatum* (Lam.) Torrey & A. Gray. [*G. falcatum* Lam.]. Waste areas, frequent. L-NLU.



- L - *Gnaphalium purpureum* L. var. *purpureum*. [*G. spathulatum* Lam.]. Waste areas, frequent. L-1362.
- R - *Haplopappus phyllocephalus* DC. [*Machaeranthera phyllocephala* (DC.) Shinn.]. Sandy areas, frequent. R-3272.
- L,R,S - *Helenium amarum* (Raf.) H. Rock. Marsh margins, frequent. L-2414; R-2595; S-3940.
- L - *Helianthus angustifolius* L. Wooded pasture, rare. L-3522.
- R,S - *Heterotheca subzillaris* (Lam.) Britton & Rusby var. *subzillaris*. Sandy areas, frequent. R-3311; S-4246.
- L,S - *Iva angustifolia* DC. var. *angustifolia*. Moist waste areas, frequent. L-NLU; S-3996.
- R,S - *Iva annua* L. Marshy areas, frequent. R-3330; S-Valentine & Rudolph 1979.
- R,S - *Iva frutescens* L. Disturbed areas on marsh borders, frequent. R-2290; S-3877.
- L,S - *Krigia cespitosa* (Raf.) Chambers. [*K. oppositifolia* Raf.]. Waste areas, frequent. L-1530; S-4269.
- S - *Krigia dandelion* (L.) Nutt. Lawns and waste areas, infrequent. S-4265.
- R - *Lactuca serriola* L. Roadside, rare. R-3047.
- R - *Leucosyris spinosa* (Benth.) E. Greene. [*Aster spinosa* Benth.]. Waste areas, frequent. R-3313.
- L,R,S - *Mikania scandens* (L.) Willd. Marsh margins, frequent. L-2440; R-NLU; S-3919.
- R - *Parthenium hysterophorus* L. Disturbed areas, frequent. R-2590.
- S - *Pluchea camphorata* (L.) DC. S-Valentine & Rudolph 1979.
- S - *Pluchea foetida* (L.) DC. S-Valentine & Rudolph 1979.
- R,S - *Pluchea odorata* (L.) Cass. [*P. purpurascens* (Sw.) DC.]. Marsh margins, frequent. R-746; S-3887.
- S - *Pterocaulon virgatum* (L.) DC. S-Valentine & Rudolph 1979.
- L - *Pyrrhoppappus carolinianus* (Walter) DC. Disturbed areas, frequent. L-2406.
- S - *Rudbeckia hirta* L. var. *pulcherrima* Farw. Waste areas, frequent. S-4002.
- L,R - *Senecio glabellus* Poir. Roadsides, frequent. L-NLU; R-Spindler & Noble 1974.
- L,R,S - *Solidago canadensis* L. var. *scabra* (Muhlenb.) Torrey & A. Gray. Waste areas, frequent. L-NLU; R-4074; S-4038.
- L,R,S - *Solidago sempervirens* L. var. *mexicana* (L.) Fern. Marsh margins, frequent. L-2413; R-NLU; S-3890.
- L - *Soliva mutisii* Kunth. Moist waste areas, infrequent. L-1562.
- L,S - *Soliva pterosperma* (A.L. Juss.) Less. Moist waste areas, infrequent. L-1561; S-4252.
- L,R,S - *Scnchus asper* (L.) Hill. Marsh margins, frequent. L-3483; R-NLU; S-NLU.
- R - *Sonchus oleraceus* L. Margins of marshy areas, frequent. R-735.
- S - *Vernonia missurica* Raf. Disturbed areas, infrequent. S-3999.
- R - *Youngia japonica* (L.) DC. [*Crepis japonica* (L.) Benth.]. Lawns, infrequent. R-849.

BATACEAE 1 - 0:1:0

- R - *Batis maritima* L. Marsh margins, frequent. R-2347.

BIGNONIACEAE 1 - 0:1:1

- R,S - *Campsis radicans* (L.) Seemann ex Bureau. Mixed woods, frequent. R-2305; S-Valentine & Rudolph 1979.

BORAGINACEAE 4 - 3:1:1

- R,S - *Heliotropium curassavicum* L. var. *curassavicum*. Marsh margins, frequent. R-3265; S-3929.

L - *Heliotropium indicum* L. Moist waste areas, infrequent. L-399.

L - *Heliotropium procumbens* Miller. Waste area, rare. L-RDT 84714.

L - *Myosotis macrosperma* Engelm. Waste areas, frequent. L-NLU.

#### BRASSICACEAE 12 - 7:6:3

R - *Brassica juncea* (L.) Czernj. var. *crispifolia* L. Bailey. Escape from cultivation, rare. R-4122.

R - *Brassica juncea* (L.) Czernj. var. *longidens* L. Bailey. Escape from cultivation, rare. R-3318.

L - *Brassica kaber* (DC.) Wheeler. [*Sinapis arvensis* L.]. Disturbed areas, infrequent. L-NLU.

L - *Brassica rapa* L. var. *rapa*. Escape from cultivation, rare. L-NLU.

R - *Cakile geniculata* (Robinson) Millsp. Marsh margins, rare. R-2342.

L,R,S - *Cardamine hirsuta* L. Lawns, infrequent. L-NLU; R-NLU; S-4266.

L,R - *Cardamine pensylvanica* Muhlenb. ex Willd. Lawns and roadsides, frequent. L-NLU; R-846.

L,S - *Coronopus didymus* (L.) Smith. Lawns and roadsides, infrequent. L-1552; S-4257.

R - *Lepidium ruderales* L. Waste areas, rare. R-4127.

L,R,S - *Lepidium virginicum* L. var. *virginicum*. Waste areas, frequent. L-NLU; R-4281; S-4250.

R - *Rorippa sessiliflora* (Nutt.) A. Hitchc. Waste areas, infrequent. R-848.

L - *Rorippa teres* (Michaux) Stuckey. Moist fields, frequent. L-NLU.

#### BROMELIACEAE 1 - 1:0:1

L,S - *Tillandsia usneoides* (L.) L. Epiphyte on trees, frequent. L-404; S-Valentine & Rudolph 1979.

#### CABOMBACEAE 1 - 1:0:1

L,S - *Cabomba caroliniana* A. Gray. Aquatic, frequent. L-2456; S-Valentine & Rudolph 1979.

#### CAESALPINIACEAE 5 - 3:3:1

L - *Cercis canadensis* L. var. *canadensis*. Escape from cultivation, rare. L-NLU.

S - *Chamaecrista fasciculata* (Michaux) E. Greene. [*Cassia fasciculata* Michaux var. *puberula* (E. Greene) J.F. Macbr., *Chamaecrista littoralis* Pollard, *Chamaecrista mississippiensis* (Pollard) Pollard ex A.A. Heller]. Disturbed areas, infrequent. S-3990.

L,R - *Gleditsia triacanthos* L. Mixed woods, infrequent. L-RDT 82961; R-2370.

R - *Senna marilandica* (L.) Link. [*Cassia marilandica* L.]. Waste areas, infrequent. R-RDT 48265.

L,R - *Senna obtusifolia* (L.) H. Irwin & Barneby. [*Cassia obtusifolia* L.]. Disturbed areas, infrequent. L-3497; R-4081.

#### CALLITRICHACEAE 2 - 1:1:0

L - *Callitriche heterophylla* Pursh emend. Darby. Moist waste areas, infrequent. L-NLU.

R - *Callitriche peploides* Nutt. Moist waste areas, infrequent. R-4130.

#### CAMPANULACEAE 2 - 2:0:1

L - *Triodanis biflora* (Ruiz Lopez & Pavón) E. Greene. [*T. perfoliata* (L.) Nieuwl. var. *biflora* (Ruiz Lopez & Pavón) Bradley, *Spergularia biflora* (Ruiz Lopez & Pavón) Fischer & G. Meyerj.]. Moist disturbed areas, infrequent. L-NLU.

L,S - *Triodanis perfoliata* (L.) Nieuwl. [*Spergularia perfoliata* (L.) A. DC.]. Moist disturbed areas, frequent. L-1533; S-4237.

CANNACEAE 1 - 0:1:0

- R - *Canna flaccida* Salisb. Roadside ditches on marsh margins, infrequent. R-379.

CAPRIFOLIACEAE 3 - 2:1:2

- L - *Lonicera japonica* Thunb. Moist waste areas, frequent. L-416.
- L,R,S - *Sambucus canadensis* L. var. *canadensis*. Margins of wet or marshy areas, infrequent. L-2411; R-2315; S-4020.
- S - *Viburnum dentatum* L. var. *dentatum*. Mixed woods, infrequent. S-3982.

CARYOPHYLLACEAE 4 - 3:0:3

- L - *Cerastium glomeratum* Thuill. Lawns and roadsides, frequent. L-RDT 82943.
- L,S - *Sagina decumbens* (Elliot) Torrey & A. Gray. Lawns and roadsides, frequent. L-RDT 82904; S-4253.
- L,S - *Stellaria media* (L.) Cirillo. Moist disturbed areas, frequent. L-NLU; S-4263.
- S - *Stellaria prostrata* Baldwin. Marsh margins, rare. S-4243.

CERATOPHYLLACEAE 2 - 2:1:1

- L,R,S - *Ceratophyllum demersum* L. Aquatic, frequent. L-2467; R-RDT 48256; S-3914.
- L - *Ceratophyllum muricatum* Cham. [*C. echinatum* A. Gray]. Aquatic, infrequent. L-NLU.

CHENOPODIACEAE 7 - 2:5:4

- R,S - *Atriplex arenaria* Nutt. Waste areas, frequent. R-2333; S-3869.
- R - *Atriplex patula* L. var. *hastata* (L.) A. Gray. [*A. patula* L. ssp. *hastata* (L.) H.M. Hall & Clements. Moist waste areas, infrequent. R-751.
- S - *Chenopodium album* L. Disturbed areas, infrequent. S-3878.

- L,R - *Chenopodium ambrosioides* L. Waste areas, frequent. L-RDT 84766; R-3049.

- L,R,S - *Chenopodium berlandieri* Moq. Waste areas, frequent. L-3501; R-2331; S-3908.

- R - *Salicornia bigelovii* Torrey. Waste areas, frequent. R-2353.

- S - *Suaeda linearis* (Elliot) Moq. Waste areas, frequent. S-3872.

CLUSIACEAE 4 - 4:0:2

- L,S - *Ascyrum hypericoides* L. [*Hypericum hypericoides* (L.) Crantz]. Margins of mixed woods, infrequent. L-2408; S-3968.
- L - *Hypericum drummondii* (Grev. & Hook.) Torrey & A. Gray. Margins of mixed woods, infrequent. L-2434.
- L - *Hypericum mutilum* L. Pond margin, rare. L-RDT 105768.
- L,S - *Triandenum virginicum* (L.) Raf. [*Hypericum virginicum* (L.) Raf.]. Marsh margin, rare. L-RDT 84727; S-Valentine & Rudolph 1979. (Reported as *Hypericum virginicum* by Valentine & Rudolph).

COMMELINACEAE 2 - 2:0:1

- L,S - *Commelina caroliniana* Walter. Marsh margin, rare. L-3486; S-3944.
- L - *Tradescantia hirsutiflora* Bush. Pastures and mixed woods, infrequent. L-NLU.

CONVOLVULACEAE 6 - 4:4:4

- L,R - *Calystegia sepium* (L.) R. Br. [*Convolvulus sepium* L.]. Marsh margins, frequent. L-RDT 83839; R-1402.
- S - *Convolvulus arvensis* L. S-Valentine & Rudolph 1979.
- L,S - *Dichondra carolinensis* Michaux. Moist disturbed areas, infrequent. L-NLU; S-4270.

L,R,S - *Ipomoea sagittata* Poir. Waste areas, frequent. L-NLU; R-2285; S-3922.

R,S - *Ipomoea trichocarpa* Elliot var. *trichocarpa*. Disturbed areas, frequent. R-727; S-RDT 81619.

L,R - *Jacquemontia tamnifolia* (L.) Griseb. Moist waste areas, infrequent. L-185; R-RDT 48281.

#### CORNACEAE 2 - 2:0:0

L - *Cornus drummondii* C. Meyer. Mixed woods, infrequent. L-NLU.

L - *Cornus foemina* Miller ssp. *foemina*. [*C. stricta* Lam.]. Mixed woods, infrequent. L-402.

#### CRASSULACEAE 1 - 1:0:0

L - *Crassula aquatica* (L.) Schoenl. [*Tillaea aquatica* L.]. Moist fields, rare. L-RDT 82901.

#### CUCURBITACEAE 2 - 1:2:1

R - *Cucumis melo* L. var. *dudaim* Naudin. Waste areas on marsh margins, frequent. R-RDT 48486.

L,R,S - *Melothria pendula* L. Waste areas on marsh margins, frequent. L-Fruge 1974; R-2287; S-3893.

#### CUSCUTACEAE 3 - 1:3:0

R - *Cuscuta cuspidata* Engelm. R-Spindler & Noble 1974.

L,R - *Cuscuta indecora* Choisy var. *indecora*. Parasite, infrequent. L-3499; R-734.

R - *Cuscuta pentagona* Engelm. var. *pentagona*. [*C. campestris* Yuncker.]. Parasite, frequent. R-980.

#### CYPERACEAE 61 - 49:10:33

L - *Carex albolutescens* Schwein. Roadsides and pastures, frequent. L-RDT 83866.

L - *Carex cephalophora* Willd. Moist mixed woods, infrequent. L-1373.

L - *Carex complanata* Torrey & Hook. Mixed woods, infrequent. L-NLU.

L - *Carex flaccosperma* Dewey. Mixed woods, infrequent. L-1367.

L,S - *Carex glaucescens* Elliot. Disturbed marshy areas, infrequent. L-1547; S-Valentine & Rudolph 1979.

L - *Carex hyalinolepis* Steudel. Disturbed area on marsh margin, rare. L-1532.

L - *Carex reniformis* (L. Bailey) Small. Disturbed areas, frequent. L-1555.

L - *Carex retrofleza* Willd. var. *retrofleza*. Mixed woods, infrequent. L-RDT 82951.

L,R,S - *Cladium jamaicense* Crantz. Marsh margins, frequent. L-2418; R-3286; S-3912.

L,S - *Cyperus articulatus* L. Marshy areas, frequent. L-NLU; S-3925.

S - *Cyperus digitatus* Roxb. Disturbed areas, infrequent. S-3916.

L - *Cyperus elegans* L. Waste areas, infrequent. L-RDT 84746.

L,R,S - *Cyperus erythrorhizos* Muhlenb. Marsh margins, frequent. L-RDT 84781; R-Spindler & Noble 1974; S-Valentine & Rudolph 1979.

L - *Cyperus esculentus* L. Marshy areas, frequent. L-NLU.

L,R - *Cyperus globulosus* Aublet. Mixed woods, frequent. L-RDT 84772; R-3324.

L,S - *Cyperus haspan* L. Moist disturbed areas, infrequent. L-RDT 84759; S-Valentine & Rudolph 1979.

L - *Cyperus hermaphroditus* (Jacq.) Standley. Mixed woods, infrequent. L-NLU.

L - *Cyperus iria* L. Roadsides and pastures, frequent. L-NLU.

R,S - *Cyperus odoratus* L. Marsh margins, frequent. R-733; S-3917.

- L - *Cyperus ozylepis* Nees ex Steudel. Marshy areas, frequent. L-RDT 84773.
- S - *Cyperus polystachyos* Rottb. var. *filicinus* M. Vahl. [*C. filicinus* M. Vahl]. S-Valentine & Rudolph 1979. (Reported as *C. filicinus* by Valentine & Rudolph).
- L,S - *Cyperus pseudovegetus* Steudel. Disturbed fields and woods, frequent. L-RDT 83822; S-Valentine & Rudolph 1979.
- L,S - *Cyperus retrosus* Chapman. [*C. ovalaris* (Michaux) Torrey var. *cylindricus* (Elliot) Torrey]. Moist areas, frequent. L-RDT 84771; S-3939.
- L,R,S - *Cyperus rotundus* L. Moist waste areas, frequent. L-NLU; R-3290; S-Valentine & Rudolph 1979.
- L,S - *Cyperus virens* Michaux. Moist fields and mixed woods, frequent. L-RDT 83805; S-NLU.
- L,S - *Dichromena colorata* (L.) A. Hitchc. [*Rhynchospora colorata* (L.) Pfeifer]. Moist roadsides and fields, frequent. L-1529; S-Valentine & Rudolph 1979.
- L - *Eleocharis acicularis* (L.) Roemer & Schultes. Moist areas, infrequent. L-NLU.
- L - *Eleocharis atropurpurea* (Retz.) J.S. Presl & C. Presl. L-Fruge 1974.
- L,S - *Eleocharis baldwinii* (Torrey) Chapman. Moist waste area, rare. L-Fruge 1974; S-2763.
- L - *Eleocharis caribaea* (Rottb.) Blake. L-Fruge 1974.
- S - *Eleocharis cellulosa* Torrey. S-Valentine & Rudolph 1979.
- L - *Eleocharis elongata* Chapman. Emergent aquatic, rare. L-2427.
- L,S - *Eleocharis equisetoides* (Elliot) Torrey. Emergent aquatic, infrequent. L-2460; S-4015.
- L - *Eleocharis fallax* Weath. Moist areas, rare. L-RDT 83763.
- L,S - *Eleocharis flavescens* (Poirlet) Urban. Moist areas, rare. L-2457; S-Valentine & Rudolph 1979.
- S - *Eleocharis macrostachya* Britton. S-Valentine & Rudolph 1979.
- L - *Eleocharis montana* (Kunth in Humb., Bonpl. & Kunth) Roemer & Schultes. Disturbed areas, infrequent. L-RDT 83865.
- L,S - *Eleocharis montevidensis* Kunth. Moist waste areas, frequent. L-RDT 83862; S-RDT 81615.
- L,S - *Eleocharis obtusa* (Willd.) Schultes var. *obtusa*. Moist disturbed areas, frequent. L-RDT 84767; S-Valentine & Rudolph 1979.
- L - *Eleocharis olivacea* Torrey. Moist waste areas, infrequent. L-1559.
- R,S - *Eleocharis parvula* (Roemer & Schultes) Link ex Bluff & Fingerh. Waste areas, infrequent. R-3278; S-3920.
- L,S - *Eleocharis quadrangulata* (Michaux) Roemer & Schultes. Marshy areas, frequent. L-1541; S-Valentine & Rudolph 1979.
- S - *Fimbristylis castanea* (Michaux) M. Vahl. Disturbed areas, frequent. S-4046.
- L - *Fimbristylis miliacea* (L.) M. Vahl. Moist areas, infrequent. L-409.
- S - *Fimbristylis spadicea* (L.) M. Vahl. S-Valentine & Rudolph 1979.
- L - *Fuirena breviseta* (Coville) Coville. Moist disturbed areas, rare. L-3498.
- L,S - *Fuirena squarrosa* Michaux. Marsh margins, infrequent. L-RDT 105792; S-Valentine & Rudolph 1979.
- L,S - *Psilocarya nitens* (M. Vahl) Alph. Wood. Moist disturbed areas, infrequent. L-RDT 84753; S-Valentine & Rudolph 1974.
- L - *Rhynchospora caduca* Elliot. Moist areas, frequent. L-RDT 83867.

S - *Rhynchospora corniculata* (Lam.) A. Gray. Moist waste areas, infrequent. S-4018.

L - *Rhynchospora globularis* (Chapman) Small. Moist disturbed areas, frequent. L-2424.

L,S - *Rhynchospora microcarpa* Baldwin ex A. Gray. Moist disturbed areas, infrequent. L-2433; S-Valentine & Rudolph 1979.

L,S - *Rhynchospora perpleza* Britton. Moist areas, infrequent. L-2439; S-Valentine & Rudolph 1979.

R - *Rhynchospora pusilla* Chapman ex M. Curtis. Sandy waste area, rare. R-2339.

L,R,S - *Scirpus americanus* Pers. [*S. olneyi* A. Gray]. Disturbed areas, frequent. L-RDT 82918; R-Spindler & Noble 1974; S-3921.

L,R,S - *Scirpus californicus* (C. Meyer) Steudel. Disturbed areas, frequent. L-Fruge 1974; R-RDT 48280; S-3931.

L - *Scirpus confervoides* Poir. [*Websteria confervoides* (Poir.) Hooper]. Aquatic, rare. L-2468.

L - *Scirpus etuberculatus* (Steudel) Kuntze. L-Fruge 1974.

L - *Scirpus koilolepis* (Steudel) Gleason. Moist fields, frequent. L-NLU.

R,S - *Scirpus robustus* Pursh. [*S. maritimus* L. var. *macrostachyus* Michaux]. Waste areas, frequent. R-RDT 48268; S-3951.

S - *Scirpus tabernaemontanii* C. Gmelin. [*S. validus* M. Vahl]. S-Valentine & Rudolph 1979. (Reported as *S. validus* by Valentine & Rudolph).

#### EBENACEAE 1 - 1:0:1

L,S - *Diospyros virginiana* L. Mixed woods, infrequent. L-420; S-Valentine & Rudolph 1979.

#### EUPHORBIACEAE 13 - 5:9:7

S - *Acalypha gracilens* A. Gray var. *gracilens*. Disturbed areas, infrequent. S-4004.

R - *Acalypha ostryifolia* Riddell. Moist waste areas, frequent. R-RDT 48257.

R - *Caperonia palustris* (L.) A. St. Hil. Disturbed areas, infrequent. R-RDT 48255.

L,R,S - *Chamaesyce glyptosperma* (Engelm.) Small. [*Euphorbia glyptosperma* Engelm.]. Waste areas, frequent. L-RDT 84718; R-747; S-4011.

L,R,S - *Chamaesyce maculata* (L.) Small. [*Euphorbia maculata* L.]. Disturbed areas, frequent. L-1557; R-3915; S-3880.

R - *Chamaesyce nutans* (Lagasca) Small. [*Euphorbia nutans* Lagasca]. Mixed woods, infrequent. R-437.

S - *Chamaesyce serpens* (Kunth in Humb., Bonpl. & Kunth) Small. [*Euphorbia serpens* Kunth in Humb., Bonpl. & Kunth]. Waste areas on marsh margins, frequent. S-3933.

L - *Croton capitatus* Michaux var. *capitatus*. Waste areas, frequent. L-2407.

R,S - *Croton glandulosus* L. Waste areas, infrequent. R-3302; S-3397.

L,R - *Croton monanthogynus* Michaux. Roadsides, infrequent. L-RDT 84720; R-3303.

S - *Croton punctatus* Jacq. Sandy areas on marsh margins, frequent. S-RDT 81626.

R - *Poinsettia dentata* (Michaux) Klotzsch & Garcke. [*Euphorbia dentata* Michaux]. Roadsides and mixed woods. R-2283.

L,R,S - *Sapium sebiferum* (L.) Roxb. Various habitats, frequent. L-2412; R-2314; S-3889.

FABACEAE 22 - 13:10:10

- L,S - *Aeschynomene indica* L. [*A. virginica* (L.) Britton. Sterns & Pogg.]. Moist waste areas, frequent. L-186; S-Valentine & Rudolph 1979. (Reported as *A. virginica* by Valentine & Rudolph).
- L - *Amorpha fruticosa* L. var. *fruticosa*. Mixed woods, infrequent. L-3545.
- L - *Apios americana* Medikus. Disturbed area on marsh margin, rare. L-3500.
- S - *Centrosema virginianum* (L.) Benth. Sandy areas on marsh margins, frequent. S-4039.
- S - *Desmodium perplezum* B.G. Schubert. Waste areas, infrequent. S-3977.
- R - *Indigofera suffruticosa* Miller. Disturbed areas on marsh margins, infrequent. R-2293.
- R,S - *Medicago lupulina* L. Sandy disturbed areas, frequent. R-4080; S-4249.
- L,R,S - *Medicago polymorpha* L. Roadsides, frequent. L-NLU; R-4286; S-NLU.
- L,R - *Melilotus indicus* (L.) All. Roadsides, frequent. L-NLU; R-2292.
- S - *Melilotus officinalis* (L.) Lam. S-Valentine & Rudolph 1979.
- R - *Pedimelum rhombifolium* (Torrey & A. Gray) Rydb. [*Psoralea rhombifolia* Torrey & A. Gray]. Sandy waste areas, infrequent. R-2296.
- R - *Rhynchosia minima* (L.) DC. var. *minima*. Sandy areas, infrequent. R-725.
- L,R,S - *Sesbania drummondii* (Rydb.) Cory. [*Daubentonia drummondii* Rydb.]. Waste areas on marsh margins, frequent. L-4006; R-2357; S-4006.
- R,S - *Sesbania macrocarpa* Muhlenb. [*S. ezaltata* (Raf.) Cory]. Waste areas on marsh margins, infrequent. R-Spindler & Noble 1974; S-3962.

- L,S - *Sesbania vesicaria* (Jacq.) Elliot. [*Glottidium vesicarium* (Jacq.) Harper]. Moist pastures and roadsides, infrequent. L-3479; S-Valentine & Rudolph 1979.
- L - *Strophostyles helvola* (L.) Elliot. Sandy areas, frequent. L-3495.
- L,S - *Strophostyles leiosperma* (Torrey & A. Gray) Piper. Moist waste areas, frequent. L-RDT 84776; S-3976.
- L - *Trifolium pratense* L. Disturbed area, rare. L-1550.
- L - *Trifolium repens* L. Roadsides and lawns, frequent. L-NLU.
- R - *Trifolium resupinatum* L. Roadsides and pastures, infrequent. R-NLU.
- L - *Vicia ludoviciana* Nutt. var. *ludoviciana*. Roadsides and fencerows, frequent. L-NLU.
- L,R,S - *Vigna luteola* (Jacq.) Benth. [*V. repens* (L.) Kuntze]. Disturbed areas, frequent. L-RDT 84762; R-RDT 48251; S-3923.

FAGACEAE 3 - 3:0:2

- L,S - *Quercus nigra* L. Mixed woods, infrequent. L-412; S-Valentine & Rudolph 1979.
- L - *Quercus obtusa* (Willd.) Pursh. Mixed woods, infrequent. L-417.
- L,S - *Quercus virginiana* Miller var. *virginiana*. Mixed woods, frequent. L-RDT 82966; S-3892.

FUMARIACEAE 1 - 0:0:1

- S - *Corydalis micrantha* (Engelm.) A. Gray var. *australis* (Chapman) Shinn. [*C. micrantha* (Engelm.) A. Gray ssp. *australis* (Chapman) Ownbey]. Sandy areas, infrequent. S-4256.

GENTIANACEAE 2 - 0:0:2

- S - *Eustoma ezaltatum* (L.) Salisb. ex G. Don. Disturbed areas on marsh margins, frequent. S-4022.

S - *Sabatia campestris* Nutt. S-Valentine & Rudolph 1979.

GERANIACEAE 1 - 1:0:1

L,S - *Geranium carolinianum* L. Roadsides, frequent. L-RDT 82905; S-NLU.

HALORAGACEAE 5 - 4:0:3

L - *Myriophyllum aquaticum* (Vell. Conc.) Verdc. [*M. brasiliense* Cambess.]. Aquatic, infrequent. L-RDT 82977.

L,S - *Myriophyllum heterophyllum* Michaux. Aquatic, infrequent. L-RDT 83848; S-4224.

L,S - *Myriophyllum pinnatum* (Walter) Britton, Sterns & Pogg. Aquatic, infrequent. L-RDT 84750; S-3991.

S - *Myriophyllum spicatum* L. Aquatic, infrequent. S-3926.

L - *Proserpinaca palustris* L. L-Fruge 1974.

HAMAMELIDACEAE 1 - 1:0:1

L,S - *Liquidambar styraciflua* L. Mixed woods, infrequent. L-RDT 82950; S-Valentine & Rudolph 1979.

HYDROCHARITACEAE 6 - 6:0:2

L - *Blyza aubertii* Rich. L-Fruge 1974.

L - *Egeria densa* Planchon. [*Elodea densa* (Planchon) Caspary]. Aquatic, rare. L-RDT 84744.

L - *Hydrilla verticillata* (L.f.) Royle. Aquatic, infrequent. L-3547.

L,S - *Limnobium spongia* (Bosc) Steudel. Aquatic, frequent. L-2400; S-4223.

L - *Ottelia alismoides* (L.) Pers. Aquatic, infrequent. L-RDT 84721.

L,S - *Vallisneria americana* Michaux. Aquatic, infrequent. L-2455; S-Valentine & Rudolph 1979.

HYDROPHYLLACEAE 4 - 3:0:1

L - *Hydrolea ovata* Nutt. ex Choisy. L-Fruge 1974. (Reported as *H. ovata* Choisy by Fruge).

S - *Hydrolea quadrivalvis* Walter. S-Valentine & Rudolph 1979.

L - *Nemophila aphylla* (L.) Brummitt. [*N. triloba* (Raf.) Thieret]. Mixed woods, rare. L-RDT 82938.

L - *Phacelia hirsuta* Nutt. Mixed woods, rare. L-RDT 82947.

IRIDACEAE 6 - 4:0:3

L - *Iris brevicaulis* Raf. L-Fruge 1974.

L,S - *Iris giganteaerulea* Small. Marsh margins, infrequent. L-NLU; S-4042.

S - *Iris virginica* L. S-Valentine & Rudolph 1979.

L - *Sisyrinchium angustifolium* Miller. Disturbed area, rare. L-NLU.

S - *Sisyrinchium atlanticum* E. Bickn. S-Valentine & Rudolph 1979.

L - *Sisyrinchium ezile* E. Bickn. Disturbed sandy areas, infrequent. L-NLU.

JUGLANDACEAE 2 - 1:0:1

L - *Carya aquatica* (Michaux f.) Nutt. Moist mixed woods, infrequent. L-NLU.

S - *Carya illinoensis* (Wangenh.) K. Koch. S-Valentine & Rudolph 1979.

JUNCACEAE 13 - 10:1:9

L,S - *Juncus acuminatus* Michaux. Disturbed fields, frequent. L-NLU; S-Valentine & Rudolph 1979.

L,S - *Juncus brachycarpus* Engelm. Fields, frequent. L-RDT 83787; S-Valentine & Rudolph 1979.

R,S - *Juncus bufonius* L. Waste areas, frequent. R-4126; S-Valentine & Rudolph 1979.

L,S - *Juncus dichotomus* Elliot. Roadsides and fields. L-RDT 83794; S-Valentine & Rudolph 1979.

L - *Juncus dudleyi* Wieg. Disturbed areas, rare. L-1565.



L,S - *Juncus effusus* L. Disturbed areas, infrequent. L-RDT 83747; S-Valentine & Rudolph 1979.

L - *Juncus interior* Wieg. Mixed woods, infrequent. L-RDT 83785.

L - *Juncus marginatus* Rostkov. (*J. biflorus* Elliot). L-Fruge 1974.

L,S - *Juncus nodatus* Coville. Marsh margins, frequent. L-1545; S-Valentine & Rudolph 1979.

L,S - *Juncus polycephalus* Michaux. L-Fruge 1974; S-Valentine & Rudolph 1979.

S - *Juncus repens* Michaux. S-Valentine & Rudolph 1979.

S - *Juncus roemerianus* Scheele. S-Valentine & Rudolph 1979.

L - *Juncus tenuis* Willd. Disturbed areas, frequent. L-1539.

LAMIACEAE 10 - 7:4:0

L - *Lamium amplexicaule* L. Lawns and roadsides, infrequent. L-NLU.

L - *Lycopus rubellus* Moench var. *rubellus*. Disturbed area, rare. L-3487.

L,R - *Monarda punctata* L. Disturbed areas, frequent. L-3502; R-2295.

L - *Salvia lyrata* L. Disturbed areas, infrequent. L-NLU.

R - *Scutellaria drummondii* Benth. Sandy areas, infrequent. R-2805.

L - *Scutellaria ovata* Hill ssp. *bracteata* (Benth.) Epling. Waste area on marsh margin, rare. L-1546.

L - *Scutellaria parvula* Michaux var. *parvula*. Moist fields and roadsides, infrequent. L-NLU.

R - *Stachys crenata* Raf. Roadsides and mixed woods, frequent. R-4124.

L - *Stachys tenuifolia* Willd. Mixed woods, infrequent. L-411.

R - *Teucrium canadense* L. var. *canadense*. Roadsides and mixed woods, frequent. R-2272.

LAURACEAE 2 - 1:0:2

S - *Cinnamomum camphora* (L.) J.S. Presl. Moist mixed woods, infrequent. S-4229.

L,S - *Sassafras albidum* (Nutt.) Nees. Mixed woods, infrequent. L-406; S-Valentine & Rudolph 1979.

LEMNACEAE 7 - 7:0:4

L,S - *Lemna minor* L. Aquatic, frequent. L-Fruge 1974; S-3967.

L,S - *Lemna perpusilla* Torrey. L-Fruge 1974; S-Valentine & Rudolph 1979.

L - *Lemna valdiviana* Philippi. Aquatic, rare. L-423.

L,S - *Spirodela polyrhiza* (L.) Schleiden. L-Fruge 1974; S-Valentine & Rudolph 1979.

L - *Spirodela punctata* (G. Meyer) C. Thompson. Aquatic, rare. L-422.

L - *Wolffiella gladiata* (Hegelm.) Hegelm. [*W. floridana* (J.D. Smith ex Hegelm.) C. Thompson]. Aquatic, infrequent. L-NLU.

L,S - *Wolffiella lingulata* (Hegelm.) Hegelm. L-Fruge 1974; S-Valentine & Rudolph 1979.

LENTIBULARIACEAE 7 - 7:0:3

L - *Utricularia biflora* Lam. Aquatic, infrequent. L-RDT 64736.

L,S - *Utricularia foliosa* L. Aquatic, infrequent. L-2443; S-Valentine & Rudolph 1979.

L - *Utricularia gibba* L. Aquatic, infrequent. L-2446.

L,S - *Utricularia inflata* Walter. Aquatic, frequent. L-RDT 83742; S-4225.

L,S - *Utricularia purpurea* Walter. Aquatic, rare. L-RDT 64734; S-Valentine & Rudolph 1979.

L - *Utricularia radiata* Small. L-Fruge 1974.

- L - *Utricularia vulgaris* L. Aquatic. infrequent. L-RDT 84735.

## LILIACEAE 6 - 6:0:3

- L,S - *Crinum americanum* L. Marsh margins, infrequent. L-2420; S-4016.

- L,S - *Hymenocallis caroliniana* (L.) Herbert. [*H. occidentalis* (Le Conte) Kunth]. L-Frue 1974; S-Valentine & Rudolph 1979. (Reported as *H. occidentalis* by Valentine & Rudolph).

- L - *Hymenocallis eulae* Shinn. L-Frue 1974.

- L - *Hymenocallis liriosome* (Raf.) Shinn. L-Frue 1974.

- L,S - *Nothoscordum bivalve* (L.) Britton. [*Allium bivalve* (L.) Kuntze]. Disturbed areas, frequent. L-NLU; S-4251.

- L - *Zephranthes candida* (Lindley) Herbert. Local escape from cultivation. rare. L-NLU.

## LINACEAE 1 - 1:0:0

- L - *Linum medium* (Planchon) Britton var. *tezanum* (Planchon) Fern. Moist disturbed areas, infrequent. L-2426.

## LOGANIACEAE 1 - 1:0:0

- L - *Mitreola petiolata* (Gmelin) Torrey & A. Gray. [*Cynoctonum mitreola* (L.) Britton]. L-Frue 1974. (Reported as *Cynoctonum mitreola* by Frue).

## LYTHRACEAE 3 - 2:1:2

- R,S - *Ammannia coccinea* Rottb. R-Spindler & Noble 1974; S-Valentine & Rudolph 1979.

- L,S - *Decodon verticillatus* (L.) Elliot. Disturbed areas, infrequent. L-3503; S-Valentine & Rudolph 1979.

- L - *Lythrum alatum* Pursh var. *lanceolatum* (Elliot) Torrey & A. Gray ex Roth. [*L. lanceolatum* Elliot]. Moist disturbed areas, frequent. L-3484.

## MAGNOLIACEAE 1 - 0:0:1

- S - *Magnolia grandiflora* L. S-Valentine & Rudolph 1979.

## MALVACEAE 6 - 4:4:5

- S - *Hibiscus grandiflorus* Michaux. On a levee, rare. S-3902.

- L,S - *Hibiscus lasiocarpus* Cav. Marsh margins, infrequent. L-2464; S-Valentine & Rudolph 1979.

- L,R,S - *Kosteletzkya virginica* (L.) C. Presl ex A. Gray var. *althiifolia* Chapman. Marsh margins, frequent. L-2463; R-2596; S-3891.

- R - *Malvastrum coromandelianum* (L.) Garcke. Fields and lawns, frequent. R-976.

- L,R,S - *Modiola caroliniana* (L.) G. Don. Disturbed areas, frequent. L-1358; R-3288; S-3927.

- L,R,S - *Sida rhombifolia* L. Disturbed areas, frequent. L-180; R-2302; S-3942.

## MARANTACEAE 1 - 1:0:0

- L - *Thalia dealbata* Roscoe. Margins of a pond, rare. L-396.

## MELASTOMATACEAE 1 - 1:0:0

- L - *Rhezia mariana* L. L-Frue 1974.

## MELIACEAE 1 - 1:1:1

- L,R,S - *Melia azedarach* L. Mixed woods, infrequent. L-2417; R-2315; S-3959.

## MENISPERMACEAE 1 - 1:1:1

- L,R,S - *Cocculus carolinus* (L.) DC. Mixed woods, infrequent. L-407; R-3306; S-3662

## MENYANTHACEAE 1 - 1:0:1

- L,S - *Nymphoides aquatica* (Gmelin) Kuntze. Aquatic, frequent. L-2399; S-Valentine & Rudolph 1979.

MIMOSACEAE 2 - 2:0:2

L,S - *Mimosa strigillosa* Torrey & A. Gray.  
Moist waste areas, infrequent. L-  
Fruge 1974: S-4001.

L,S - *Neptunia pubescens* Benth. var.  
*pubescens*. Sandy waste areas, infre-  
quent. L-NLU; S-4040.

MORACEAE 3 - 1:0:3

S - *Ficus carica* L. S-Valentine & Rudolph  
1979.

S - *Morus alba* L. Mixed woods, infrequent.  
S-3937.

L,S - *Morus rubra* L. Mixed woods, infre-  
quent. L-419; S-Valentine & Rudolph  
1979.

MYRICACEAE 1 - 1:0:1

L,S - *Myrica cerifera* L. Fencerows and dis-  
turbed areas, infrequent. L-1526; S-  
4014.

NAJADACEAE 1 - 1:1:1

L,R,S - *Najas guadalupensis* (Sprengel)  
Magnus. Aquatic, frequent. L-425;  
R-RDT 48279; S-3953.

NELUMBONACEAE 1 - 1:1:1

L,R,S - *Nelumbo lutea* (Willd.) Pers.  
Aquatic in shallow water, frequent. L-  
2397; R-3300; S-4013.

NYCTAGINACEAE 1 - 0:1:0

R - *Boerhaavia diffusa* L. [*B. coccinea*  
Miller]. Roadsides and mixed woods,  
infrequent. R-RDT 48276.

NYMPHAEACEAE 5 - 3:0:5

L,S - *Brasenia schreberi* J. Gmelin.  
Aquatic, frequent. L-2469; S-  
Valentine & Rudolph 1979.

L,S - *Nuphar luteum* (L.) Sibth. & Smith  
ssp. *macrophyllum* (Small) E. Beal.  
Aquatic in shallow water, infrequent.  
L-2396; S-Valentine & Rudolph 1979.

S - *Nymphaea elegans* Hook. S-Valentine &  
Rudolph 1979.

S - *Nymphaea mezicana* Zucc. S-Valentine  
& Rudolph 1979.

L,S - *Nymphaea odorata* Sol. in Aiton.  
Aquatic, frequent. L-2398; S-3949.

OLEACEAE 2 - 1:1:0

R - *Frazinus pensylvanica* Marshall. Mixed  
woods, rare. R-3046.

L - *Jasminum mesnyi* Hance. Persistent  
along roadside, cultivated, rare. L-  
NLU.

ONAGRACEAE 13 - 11:6:6

S - *Gaura lindheimeri* Engelm. & A. Gray.  
Roadsides and fields, frequent. S-  
3972.

L,R - *Gaura longiflora* Spach. Disturbed  
areas, frequent. L-RDT 83864; R-  
738.

L,S - *Ludwigia decurrens* Walter. L-Fruge  
1974; S-Valentine & Rudolph 1979.

L - *Ludwigia glandulosa* Walter. Fields and  
margin of mixed woods, infrequent.  
L-3491.

L,R,S - *Ludwigia leptocarpa* (Lutt.) H.  
Hara. L-Fruge 1974; R-Spindler &  
Noble 1974; S-Valentine & Rudolph  
1979.

L - *Ludwigia linearis* Walter. Roadsides  
and pastures, infrequent. L-RDT  
84724.

L - *Ludwigia palustris* (L.) Elliot. Moist  
fields, frequent. L-1556.

L,S - *Ludwigia peploides* (Kunth) Raven.  
Margins of mixed woods, frequent. L-  
2454; S-3992.

L - *Ludwigia sphaerocarpa* Elliot. L-Fruge  
1974.

L,R,S - *Ludwigia uruguayensis* (Cambess.)  
H. Hara. Disturbed areas, frequent.  
L-2466; R-2365; S-3897.

R - *Oenothera drummondii* Hook. Sandy  
areas, frequent. R-RDT 48277.

L,R,S - *Oenothera laciniata* Hill. Sandy areas, frequent. *L-RDT 83868; R-2334; S-4248.*

L,R - *Oenothera speciosa* Nutt. Disturbed areas, infrequent. *L-NLU; R-3287.*

#### ORCHIDACEAE 2 - 2:0:1

L,S - *Habenaria repens* Nutt. Disturbed areas, infrequent. *L-RDT 84725; S-NLU.*

L - *Spiranthes vernalis* Engelm. & A. Gray. Moist pastured woods, infrequent. *L-NLU.*

#### OXALIDACEAE 3 - 3:1:2

L,R,S - *Ozalis dillenii* Jacq. Lawns and roadsides, frequent. *L-NLU; R-731; S-4231.*

L,S - *Ozalis rubra* A. St. Hil. Lawns, infrequent. *L-NLU; S-4259.*

L - *Ozalis violacea* L. Lawn, rare. *L-NLU.*

#### PASSIFLORACEAE 1 - 1:1:1

L,R,S - *Passiflora incarnata* L. Waste areas, frequent. *L-2415; R-3319; S-3960.*

#### PHYTOLACCACEAE 2 - 1:2:2

L,R,S - *Phytolacca americana* L. Waste areas, infrequent. *L-NLU; R-2301; S-3898.*

R,S - *Rivinia humilis* L. Mixed woods, infrequent. *R-3284; S-3958.*

#### PLANTAGINACEAE 2 - 2:0:1

L - *Plantago heterophylla* Nutt. Roadsides and fields, infrequent. *L-RDT 82902.*

L,S - *Plantago virginica* L. Disturbed areas, infrequent. *L-1538; S-Valentine & Rudolph 1979.*

#### POACEAE 86 - 42:30:60

L - *Agrostis hiemalis* (Walter) Britton, Sterns & Pogg. Fields, infrequent. *L-RDT 83791.*

L - *Alopecurus carolinianus* Walter. Roadsides and fields, infrequent. *L-NLU.*

L,R,S - *Andropogon glomeratus* (Walter) Britton, Sterns & Pogg. Disturbed areas, infrequent. *L-Fruge 1974; R-3275; S-4034.*

R,S - *Andropogon virginicus* L. Moist areas, rare. *R-Spindler & Noble 1974; S-4019.*

S - *Aristida longespica* Poirlet var. *longespica*. *S-Valentine & Rudolph 1979.* (Reported as *A. longespica* by Valentine & Rudolph).

R - *Arthraxon hispidus* (Thunb.) Makino. Ditches and fields, rare. *R-3317.*

L,S - *Azonopus affinis* Chase. Fields and mixed woods, frequent. *L-Fruge 1974; S-3957.*

S - *Bothriochloa longipaniculata* (Gould) Allred & Gould. [*B. saccharoides* (Sw.) Rydb. *Andropogon saccharoides* Sw.]. *S-Valentine & Rudolph 1979.* (Reported as *Andropogon saccharoides* by Valentine & Rudolph).

S - *Brachiaria platyphylla* (Griseb.) Nash. *S-Valentine & Rudolph 1979.*

L - *Briza minor* L. Roadsides and field margins, infrequent. *L-NLU.*

L,R - *Bromus unioloides* Kunth in Humb., Bonpl. & Kunth. Roadsides, infrequent. *L-NLU; R-2278.*

R - *Cenchrus echinatus* L. Roadsides, frequent. *R-729.*

R - *Cenchrus incertus* M. Curtis. [*C. pauciflorus* Benth.]. Roadsides, frequent. *R-2282.*

R - *Cenchrus tribuloides* L. Sandy waste area, rare. *R-3305.*

L,R,S - *Cynodon dactylon* (L.) Pers. Disturbed areas, frequent. *L-1371; R-2284; S-Valentine & Rudolph 1979.*

R - *Dactyloctenium aegyptium* (L.) P. Beauv. Roadsides and fields, infrequent. *R-4082.*

- R - *Digitaria ciliaris* (Retz.) Koeler. [*D. ascendens* (Kunth in Humb. Bonpl. & Kunth) Henrard]. Roadside ditches and fields, infrequent. R-739.
- L,R,S - *Digitaria sanguinalis* (L.) Scop. Roadsides, frequent. L-3494; R-3304; S-Valentine & Rudolph 1979.
- R,S - *Distichlis spicata* (L.) E. Greene var. *spicata*. Disturbed areas, frequent. R-2320; S-3873.
- S - *Echinochloa colona* (L.) Link. S-Valentine & Rudolph 1979.
- R,S - *Echinochloa crusgalli* (L.) P. Beauv. var. *crusgalli*. Disturbed areas on marsh margin, infrequent. R-RDT 48288; S-Valentine & Rudolph 1979.
- L,R,S - *Echinochloa walteri* (Pursh) A.A. Heller. Marsh margins, infrequent. L-RDT 84778; R-Spindler & Noble 1974; S-3870.
- R - *Eleusine indica* (L.) Gaertner. Roadsides and waste areas, frequent. R-3294.
- S - *Elymus virginicus* L. S-Valentine & Rudolph 1979.
- L - *Eragrostis eliottii* S. Watson. L-Fruge 1974.
- L - *Eragrostis hypnoides* (Lam.) Britton, Sterns & Pogg. Moist disturbed areas, rare. L-RDT 84754.
- L,S - *Erianthus giganteus* (Walter) Hubb. non Muhlenb. L-Fruge 1974; S-Valentine & Rudolph 1979.
- R,S - *Eriochloa punctata* (L.) Desv. ex Ham. Disturbed areas, infrequent. R-977; S-Valentine & Rudolph 1979.
- S - *Eustachys petraea* (Sw.) Desv. [*Chloris petraea* Sw.]. S-Valentine & Rudolph 1979. (Reported as *Chloris petraea* by Valentine & Rudolph).
- S - *Hemarthria altissima* (Poir.) Stapf & C.E. Hubb. [*Manisuris altissima* (Poir.) A. Hitchc.]. S-Valentine & Rudolph 1979. (Reported as *Manisuris altissima* by Valentine & Rudolph).
- L,S - *Hordeum pusillum* Nutt. Roadsides, infrequent. L-NLU; S-Valentine & Rudolph 1979.
- L,S - *Hydrochloa caroliniensis* P. Beauv. [*Luziola fluitans* (Michaux) Terrell & H. Robinson]. Aquatic or semi-aquatic, infrequent. L-2444; S-Valentine & Rudolph 1979.
- L,S - *Leersia hexandra* Sw. L-Fruge 1974; S-Valentine & Rudolph 1979.
- S - *Leersia oryzoides* (L.) Sw. S-Valentine & Rudolph 1979.
- S - *Leptochloa fascicularis* (Lam.) A. Gray. [*Diplachne fascicularis* (Lam.) P. Beauv.]. Disturbed areas, infrequent. S-3945.
- S - *Leptochloa nealleyi* Vasey. S-Valentine & Rudolph 1979.
- S - *Leptochloa uninervia* (C. Presl) A. Hitchc. & Chase. [*Diplachne uninervia* (C. Presl) L. Parodi]. S-Valentine & Rudolph 1979.
- L - *Limnodea arkansana* (Nutt.) L. Dewey. Disturbed areas, infrequent. L-1525.
- L - *Lolium perenne* L. Roadsides, frequent. L-1360.
- L - *Panicum* *commutatum* Schultes. [*Dichantherium commutatum* (Schultes) Gould]. Sandy soil, infrequent. L-NLU.
- S - *Panicum dichotomiflorum* Michaux. Roadside ditches, infrequent. S-3871.
- L,S - *Panicum dichotomum* L. [*Dichantherium dichotomum* (L.) Gould]. Mixed woods, infrequent. L-2403; S-3965.
- L - *Panicum gymnocarpon* Elliot. Mixed woods, rare. L-NLU.
- L,R,S - *Panicum hemitonon* Schultes. Roadside ditches and moist pastures, frequent. L-2429; R-Spindler & Noble 1974; S-Valentine & Rudolph 1979.
- L,S - *Panicum hians* Elliot. Roadside ditches and pastures, frequent. L-RDT 83761; S-Valentine & Rudolph 1979.

- L - *Panicum leucothriz* Nash. [*Dichantheium acuminatum* (Sw.) Gould & C.A. Clark var. *implicatum* (Scribner) Gould & C.A. Clark]. Mixed woods, infrequent. L-1535.
- L - *Panicum lindheimeri* Nash. [*Dichantheium acuminatum* (Sw.) Gould & C.A. Clark var. *lindheimeri* (Nash) Gould & C.A. Clark]. Disturbed fields, infrequent. L-1564.
- S - *Panicum repens* L. S-Valentine & Rudolph 1979.
- L - *Panicum rigidulum* Bosc ex Nees. Mixed woods, infrequent. L-395.
- L,S - *Panicum scoparium* Lam. [*Dichantheium scoparium* (Lam.) Gould]. Moist roadsides and pastured wetlands, infrequent. L-RDT 83780; S-3978.
- L - *Panicum sphaerocarpon* Elliot. [*Dichantheium sphaerocarpon* (Elliot) Gould]. Fields and waste areas, infrequent. L-NLU.
- S - *Panicum spretum* Schultes. [*Dichantheium acuminatum* (Sw.) Gould & C.A. Clark var. *densiflorum* (Rand & Redf.) Gould & C.A. Clark]. S-Valentine & Rudolph 1979.
- S - *Panicum virgatum* L. Roadside ditches and levees, infrequent. S-4008.
- S - *Paspalidium geminatum* (Forsskal) Stapf var. *geminatum*. [*Panicum geminatum* Forsskal]. S-Valentine & Rudolph 1979. (Reported as *Panicum geminatum* by Valentine & Rudolph).
- R - *Paspalum dilatatum* Poirlet. Moist waste areas, infrequent. R-3293.
- S - *Paspalum dissectum* (L.) L. S-Valentine & Rudolph 1979.
- R,S - *Paspalum distichum* L. [*Paspalum paspalodes* (Michaux) Scribner]. Marsh margins, infrequent. R-3283; S-Valentine & Rudolph 1979.
- S - *Paspalum laeve* Michaux. S-Valentine & Rudolph 1979.
- L,R - *Paspalum langei* (Fourn.) Nash. Disturbed areas, infrequent. L-RDT 83829; R-736.
- R,S - *Paspalum lividum* Trin. Mixed woods, frequent. R-2271; S-Valentine & Rudolph 1979.
- L,S - *Paspalum plicatulum* Michaux. Waste areas, frequent. L-2428; S-Valentine & Rudolph 1979.
- S - *Paspalum praecox* Walter. S-Valentine & Rudolph 1979.
- L,R,S - *Paspalum urvillei* Steudel. Disturbed areas, frequent. L-2405; R-3289; S-4021.
- R,S - *Paspalum vaginatum* Sw. Disturbed areas on marsh margins, frequent. R-741; S-3875.
- S - *Phalaris angusta* Nees ex Trin. S-Valentine & Rudolph 1979.
- L,S - *Phalaris caroliniana* Walter. Roadsides and fields, infrequent. L-NLU; S-4264.
- L,R,S - *Phragmites australis* (Cav.) Trin. ex Steudel. [*P. communis* (L.) Trin.]. Marsh margins, frequent. L-RDT 82900; R-718; S-3915.
- L,S - *Poa annua* L. Moist disturbed areas, frequent. L-1369; S-4236.
- S - *Polypogon monspeliensis* (L.) Desf. S-Valentine & Rudolph 1979.
- L,S - *Sacciolepis striata* (L.) Nash. Marsh margins, frequent. L-2402; S-3896.
- L-Schizachyrium  
scoparium (Michaux) Nash. [*Andropogon scoparius* Michaux.]. L-Fruge 1974.
- L,R,S - *Setaria geniculata* (Lam.) P. Beauv. Disturbed areas, frequent. L-2416; R-2276; S-3943.
- L,R,S - *Setaria magna* Griseb. Marsh margins, infrequent. L-RDT 84779; R-749; S-3899.
- R,S - *Sorghum halapense* (L.) Pers. Roadside waste areas, infrequent. R-2299; S-Valentine & Rudolph 1979.

- S - *Spartina alterniflora* Loıs. S-Valentine & Rudolph 1979.
- R,S - *Spartina cynosuroides* (L.) Roth. Marsh margins, frequent. R-719; S-3868.
- L,R,S - *Spartina patens* (Aiton) Muhlenb. Marsh margins, frequent. L-Fruge 1974; R-2324; S-3874.
- S - *Spartina spartinae* (Trin.) A. Hitchc. S-Valentine & Rudolph 1979.
- L - *Sphenopholis obtusata* (Michaux) Scribner. L-Fruge 1974.
- L,R,S - *Sporobolus indicus* (L.) R.Br. [*S. poiretii* (Roemer & Schultes) A. Hitchc.]. Pastures and fields, frequent. L-RDT 83813; R-3323; S-Valentine & Rudolph 1979.
- S - *Sporobolus virginicus* (L.) Kunth. S-Valentine & Rudolph 1979.
- S - *Stenotaphrum secundatum* (Walter) Kuntze. S-Valentine & Rudolph 1979.
- S - *Tridens strictus* (Nutt.) Nash. S-Valentine & Rudolph 1979.
- S - *Tripsacum dactyloides* (L.) L. Marshy areas, infrequent. S-4007.
- L - *Vulpia octoflora* (Walter) Rydb. var. *octoflora*. [*Festuca octoflora* Walter]. Sandy areas, infrequent. L-1536.
- L,S - *Zizaniopsis miliacea* (Michaux) Doell & Asch. Marsh margins, frequent. L-RDT 82911; S-4239.
- L,S - *Polygonum hydropiperoides* Michaux var. *hydropiperoides*. [*Persicaria hydropiperoides* (Michaux) Small]. Roadside ditches and mixed woods, frequent. L-3493; S-Valentine & Rudolph 1979.
- L - *Polygonum lapathifolium* L. var. *lapathifolium*. [*Persicaria lapathifolia* (L.) Gray]. Pastures, frequent. L-1527.
- L,R,S - *Polygonum punctatum* Elliot. [*Persicaria punctata* (Elliot) Small]. Ditches and mixed woods, frequent. L-398; R-RDT 48291; S-3950.
- S - *Polygonum striatulum* Robinson. [*P. camporum* Meinhsh.]. S-Valentine & Rudolph 1979. (Reported as *P. camporum* by Valentine & Rudolph).
- L,R - *Rumex chrysocarpus* Moris. [*R. berlandieri* Meinhsh.]. Disturbed areas, frequent. L-RDT 84775; R-3260.
- L,S - *Rumex crispus* L. Waste areas, frequent. L-NLU; S-4245.
- R - *Rumex paraguayensis* L. Parodi. Moist waste areas, infrequent. R-2354.
- R,S - *Rumex triangulivalvis* (Danser) Rech. f. [*R. mexicanus* Meinhsh.]. Roadsides and ditches, rare. R-3298, S-3882.

PONTERIACEAE 3 - 3:2:2

- L,R,S - *Eichhornia crassipes* (C. Martius) Solms-Laub. Aquatic, frequent. L-NLU; R-NLU; S-Valentine & Rudolph 1979.
- L,R,S - *Pontederia cordata* L. var. *cordata*. Disturbed areas, frequent. L-RDT 83748; R-NLU; S-3995.
- L - *Pontederia cordata* L. var. *lanceifolia* (Muhlenb. ex Elliot) Torrey ex Lowden. Aquatic, infrequent. L-2465.

PORTULACACEAE 3 - 2:1:1

- L - *Brunnichia ovata* (Walter) Shinn. [*B. cirrhosa* Gaertner]. Mixed woods, infrequent. L-182.
- L - *Polygonum cespitosum* Blume var. *longisetum* (Brujin) Steward. Mixed woods, rare. L-NLU.
- R,S - *Polygonum densiflorum* Meinhsh. [*Persicaria portoricensis* (Bertero) Small]. Pastured wetlands, infrequent. R-3309; S-3910.
- L - *Claytonia virginica* L. In a lawn, infrequent. L-1366.
- S - *Portulaca mundula* I.M. Johnston. Margins of mixed woods, infrequent. S-3883.

L,R - *Portulaca oleracea* L. Moist waste areas, infrequent. L-3672; R-740.

POTAMOGETONACEAE 4 - 3:2:3

L,S - *Potamogeton diversifolius* Raf. Aquatic, rare. L-RDT 83752; S-Valentine & Rudolph 1979.

S - *Potamogeton foliosus* Raf. S-Valentine & Rudolph 1979.

L,R - *Potamogeton nodosus* Poir. Aquatic, infrequent. L-RDT 84723; R-2337.

L,R,S - *Potamogeton pusillus* L. var. *pusillus*. Aquatic, frequent. L-Fruge 1974; R-2336; S-Valentine & Rudolph 1979. (Reported as *Potamogeton pusillus* by Fruge and Valentine & Rudolph).

PRIMULACEAE 3 - 3:1:1

L - *Anagallis arvensis* L. Roadsides, infrequent. L-NLU.

L,S - *Centunculus minimus* L. [*Anagallis minima* (L.) E.H. Krause]. Lawns and waste areas, infrequent. L-Fruge 1974; S-4267.

L,R - *Samolus parviflorus* Raf. [*S. valerandi* L. ssp. *parviflorus* (Raf.) Hultén]. Marshy areas, infrequent. L-1556; R-NLU.

RANUNCULACEAE 8 - 7:5:3

L - *Anemone caroliniana* Walter. Mixed woods, rare. L-NLU.

L,R - *Clematis crispa* L. Mixed woods, infrequent. L-1364; R-NLU.

L,R,S - *Ranunculus muricatus* L. Roadsides and waste areas, frequent. L-1363; R-NLU; S-4260.

L,R - *Ranunculus platensis* Sprengel. Roadsides, rare. L-RDT 82952; R-4283.

L,S - *Ranunculus pusillus* Poir. [*R. lindheimeri* Engelm.]. Moist roadsides and fields, infrequent. L-RDT 82906; S-Valentine & Rudolph 1979.

L - *Ranunculus sardous* Crantz. Moist waste areas, infrequent. L-NLU.

L,R,S - *Ranunculus sceleratus* L. Marshy areas, frequent. L-NLU; R-4128; S-4242.

R - *Ranunculus trilobus* Desf. Roadside ditches and waste areas, infrequent. R-4284.

RHAMNACEAE 1 - 0:0:1

S - *Rhamnus caroliniana* Walter. Mixed woods, infrequent. S-4227.

ROSACEAE 7 - 5:0:5

L - *Crataegus viridis* L. Mixed woods, frequent. L-421.

L - *Geum canadense* Jacq. Mixed woods, rare. L-NLU.

L,S - *Prunus serotina* Ehrh. var. *serotina*. Mixed woods, frequent. L-413; S-3989.

S - *Rosa bracteata* Wendl. Disturbed areas on marsh margins, frequent. S-3975.

S - *Rosa laevigata* Michaux. S-Valentine & Rudolph 1979.

L,S - *Rubus louisianus* A. Berger. Wooded areas, infrequent. L-RDT 82909; S-4030.

L,S - *Rubus trivialis* Michaux var. *trivialis*. Disturbed areas, infrequent. L-2410; S-3900.

RUBIACEAE 6 - 5:2:4

L,S - *Cephalanthus occidentalis* L. Marsh margins, infrequent. L-397; S-Valentine & Rudolph 1979.

L - *Diodia teres* Walter. Moist waste areas, infrequent. L-2437.

L,R,S - *Diodia virginiana* L. var. *virginiana*. Disturbed areas, frequent. L-NLU; R-798; S-4028.

L - *Galium aparine* L. Roadside ditches, infrequent. L-NLU.



R.S - *Galium tinctorium* L. Overgrown roadside areas, frequent. R-NLU; S-4036.

L.S - *Houstonia pusilla* Schoepf. [*Hedyotis crassifolia* Raf.]. Lawns and fields, infrequent. L-NLU; S-4268.

RUPPIACEAE 1 - 0:1:1

R.S - *Ruppia maritima* L. Aquatic in ditches, frequent. R-3270; S-Valentine & Rudolph 1979.

RUTACEAE 2 - 1:1:1

R - *Citrus reticulata* Blanco. Persistent, cultivated, rare. R-845.

L,S - *Zanthoxylum clava-herculis* L. Fencerows and mixed woods, frequent. L-NLU; S-3885.

SALICACEAE 1 - 1:1:1

L,R,S - *Salix nigra* Marshall. Moist areas, frequent. L-2409; R-2307; S-3998.

SAPINDACEAE 1 - 0:1:1

R.S - *Cardiospermum halicacabum* L. Overgrown waste areas, infrequent. R-723; S-3928.

SAPOTAÇEAE 1 - 0:0:1

S - *Bumelia lanuginosa* (Michaux) Pers. Levees, frequent. S-3987.

SAURURACEAE 1 - 1:0:1

L.S - *Saururus cernuus* L. Marshy areas in mixed woods, infrequent. L-1553; S-Valentine & Rudolph 1979.

SCROPHULARIACEAE 13 - 8:2:7

S - *Agalinis fasciculata* (Elliot) Raf. [*Gerardia fasciculata* Elliot]. Margins of mixed woods, infrequent. S-3973.

S - *Agalinis maritima* (Raf.) Raf. [*Gerardia maritima* Raf.]. Spoilbank, rare. S-RDT 82546.

L.S - *Bacopa caroliniana* (Walter) Robinson. Aquatic or semi-aquatic, infrequent. L-2458; S-4226.

L,R,S - *Bacopa monnieri* (L.) Wettst. Aquatic or semi-aquatic, frequent. L-Fruge 1974: R-2281; S-3886.

S - *Bacopa rotundifolia* (Michaux) Wettst. Aquatic waste areas, infrequent. S-3952.

L - *Gratiola virginiana* L. [*G. sphaerocarpa* Elliot]. Moist fields, infrequent. L-2447.

S - *Linaria canadensis* (L.) Dum.-Cours. Levee adjacent to marsh, rare. S-4233.

L - *Linaria tezana* Scheele. L-Fruge 1974.

L - *Linaria*: forms intermediate between *L. canadensis* (L.) Dum.-Cours. and *L. tezana* Scheele. Moist areas, infrequent. L-1370.

L - *Lindernia dubia* (L.) Pennell var. *anagallidea* (Michaux) Cooperr. Marsh margins, rare. L-2452.

L - *Mazus pumilus* (Burman f.) Steenis. [*M. japonicus* (Thunb.) Kuntze]. Lawns and ditches, infrequent. L-NLU.

S - *Scoparia dulcis* L. Mixed woods, infrequent. S-3881.

L,R - *Veronica peregrina* L. var. *peregrina*. Moist waste areas, frequent. L-NLU; R-4129.

SMILACACEAE 3 - 2:1:1

L - *Smilax bona-nox* L. Mixed woods, frequent. L-414.

R - *Smilax hispida* Muhlenb. ex Torrey. Mixed woods, infrequent. R-3332.

L.S - *Smilax smallii* Morong. Mixed woods, infrequent. L-415; S-4230.

SOLANACEAE 9 - 4:4:6

R,S - *Lycium carolinianum* Walter. Waste areas, frequent. R-2327; S-Valentine & Rudolph 1979.

S - *Petunia parviflora* A.L. Juss. Lawn on marsh margin, rare. S-4262.

R,S - *Physalis angulata* L. var. *angulata*.  
Moist waste areas, frequent. R-743;  
S-3884.

S - *Physalis ctenascens* (Dunal) Hitchc.  
var. *spathulaefolia* (Torrey) Sullivan.  
Sandy waste areas, frequent. S-4000.

L,R - *Physalis pubescens* L. var. *pubescens*.  
Disturbed areas, frequent. L-3485; R-  
RDT 48252.

L - *Solanum carolinense* L. Mixed woods,  
infrequent. L-RDT 83766.

L - *Solanum nigrum* L. L-Fruge 1974.

S - *Solanum pseudocapsicum* L. S-Valentine  
& Rudolph 1979.

L,R,S - *Solanum ptycanthum* Dunal. Dis-  
turbed areas, frequent. L-1560; R-  
2288; S-4255.

#### SPHENOCLEACEAE 1 - 1:0:1

L,S - *Sphenoclea zeylandica* Gaertner.  
Moist disturbed areas, rare. L-RDT  
84715; S-Valentine & Rudolph 1979.

#### STERCULIACEAE 1 - 1:0:0

L - *Melochia corchorifolia* L. Margins of  
mixed woods, infrequent. L-184.

#### STYRACACEAE 1 - 1:0:0

L - *Styrax americana* Lam. var. *pulveru-  
lenta* (Michaux) Rehder. Marsh margin,  
rare. L-NLU.

#### TAMARICACEAE 1 - 1:1:1

L,R,S - *Tamarix gallica* L. On levees, infre-  
quent. L-1540; R-2330; S-3983.

#### TYPHACEAE 2 - 2:1:2

L,S - *Typha domingensis* Pers. Ditches bor-  
dering marshy areas, infrequent. L-  
1544; S-Valentine & Rudolph 1979.

L,R,S - *Typha latifolia* L. Marsh margins,  
frequent. L-2401; R-2362; S-3924.

#### ULMACEAE 2 - 2:1:1

L,R,S - *Celtis laevigata* Willd. Mixed  
woods and levees, frequent. L-RDT  
82932; R-2313; S-3985.

L - *Planera aquatica* (Walter) J. Gmelin.  
Moist mixed woods, rare. L-RDT  
82962.

#### URTICACEAE 3 - 1:1:2

L - *Boehmeria cylindrica* (L.) Sw. Mixed  
woods, infrequent. L-3488.

R,S - *Parietaria pensylvanica* Muhlenb. ex  
Willd. Lawns and fields, frequent. R-  
4125; S-4241.

S - *Urtica chamidryoides* Pursh. Moist  
fields and mixed woods, infrequent. S-  
4221.

#### VALERIANACEAE 1 - 1:0:1

L,S - *Valerianella radiata* (L.) Dufr. Road-  
sides, frequent. L-NLU; S-4258.

#### VERBENACEAE 10 - 6:5:7

L,S - *Callicarpa americana* L. var. *amer-  
icana*. Mixed woods, infrequent. L-  
418; S-3961.

L,R - *Lantana camara* L. var. *mista* (L.) L.  
Bailey. Fencerows and mixed woods,  
frequent. L-3482; R-RDT 48258.

S - *Phyla x intermedia* Mold. Waste areas,  
frequent. S-3986.

L,R,S - *Phyla nodiflora* (L.) E. Greene  
var. *nodiflora*. [*Lippia nodiflora* (L.)  
Michaux]. Waste areas, frequent. L-  
RDT 84749; R-2280; S-RDT 81621.

S - *Phyla nodiflora* (L.) E. Greene var. *tez-  
ensis* Mold. Waste areas on marsh  
margins, frequent. S-4005.

R,S - *Verbena bonariensis* L. Marsh, waste  
areas on marsh margins, infrequent.  
R-Spindler & Noble 1974; S-3903.

L,R,S - *Verbena brasiliensis* Vell. Conc.  
Disturbed areas, frequent. L-2462; R-  
730; S-NLU.

L,R - *Verbena halei* Small. Disturbed areas, frequent. L-NLU; R-2291.

L - *Verbena scabra* M. Vahl. Mixed woods, infrequent. L-3492.

S - *Verbena zuiha* Lehm. Marsh margins, infrequent. S-RDT 81620.

VIOLACEAE 1 - 1:0:0

L - *Viola langloisii* E. Greene. Roadsides and lawns, rare. L-NLU.

VITACEAE 3 - 1:1:3

R,S - *Ampelopsis arborea* (L.) Koehne. Waste areas and mixed woods, infrequent. R-3326; S-3984.

S - *Parthenocissus quinquefolia* (L.) Planchon. Wooded areas, infrequent. S-3974.

L,S - *Vitis mustangensis* Buckley. Sandy areas, frequent. L-RDT 82949; S-3980.

XYRIDACEAE 2 - 2:0:0

L - *Xyris jupicai* Rich. Wet sandy areas, infrequent. L-2393.

L - *Xyris lazifolia* C. Martius var. *iridifolia* (Chapman) Kral. [*X. ifolia* Chapman]. Moist areas, frequent. L-2394.

ACKNOWLEDGMENTS

The authors would like to thank James L. Reveal, Charles M. Allen and Garrie P. Landry for reviewing part or all of the manuscript. We would also like to thank the personnel at Cameron Prairie National Wildlife Refuge, Lacassine National Wildlife Refuge, Rockefeller Wildlife Refuge and Game Preserve, and Sabine National Wildlife Refuge for their cooperation and assistance. Thanks is also extended to K.N. Gandhi for reviewing the nomenclature. We also acknowledge assistance received from experts who annotated many specimens collected by the authors. This is Scientific Article A-5062, Contribution No. 8121, of the Maryland Agricultural Experiment Station.

LITERATURE CITED

- Allen, C.M. 1980. *Grasses of Louisiana*. Univ. of Southwestern Louisiana, Lafayette. 358 pp.
- Bailey, L.H. 1949. *Manual of Cultivated Plants*. MacMillan Publishing Company, Inc., New York. 1116 pp.

- Cameron Parish Rural Development Committee. 1970. *An Appraisal of Potential for Outdoor Recreation Cameron Parish, Louisiana*. Soil Conservation Service, U.S. Department of Agriculture. 61 pp.
- Chabreck, R.H. & G. Linscombe. 1978. *Vegetative Type Map of the Louisiana Coastal Marshes*. Louisiana Department of Wildlife and Fisheries Map, New Orleans. map.
- Correll, D.D. & M.C. Johnston. 1970. *Manual of the Vascular Plants of Texas*. Texas Research Foundation, Renner, Texas. 1881 pp.
- Cronquist, A. 1980. *Vascular Flora of the Southeastern United States*. Vol. 1. Asteraceae. Univ. of North Carolina Press, Chapel Hill. 261 pp.
- . 1981. *An Integrated System of Classification of Flowering Plants*. Columbia Univ. Press, New York. 1262 pp.
- Dutton, B.E. 1985. A preliminary survey of the vascular flora of Cameron Parish, Louisiana. Unpublished M.S. Thesis. Northeast Louisiana Univ., Monroe. 142 pp.
- & R.D. Thomas. 1990. The vascular flora of Cameron Parish, Louisiana. Castanea, manuscript submitted.
- Fruge, D.W. 1974. *The Vegetation of Lacassine Pool, Lacassine National Wildlife Refuge, Louisiana*. U.S. Fish and Wildlife Service, Lafayette, Louisiana.
- Godfrey, R.K. & J.W. Wooten. 1979. *Aquatic and Wetland Plants of the Southeastern United States. Monocotyledons*. Univ. of Georgia Press, Athens. 712 pp.
- . 1981. *Aquatic and Wetland Plants of the Southeastern United States. Dicotyledons*. Univ. of Georgia Press, Athens. 933 pp.
- Gould, F.W. 1975. *The Grasses of Texas*. Texas A & M Univ. Press, College Station. 653 pp.
- Hitchcock, A.S. 1950. *Manual of the Grasses of the United States*, 2nd ed. (Revised by A. Chase). U.S. Department of Agriculture Publication 200, Washington, D.C. 1051 pp.
- Holmgren, R.K., W. Keuken & E.K. Schofield, compilers. 1981. *Index Herbariorum*. Part I: The herbaria of the world., 7th ed. Regnum Veg. 106.

- Howe, H.V., R.J. Russell, J.H. McGuirt, B.C. Craft & M.B. Stephenson. 1935. Reports on the geology of Cameron and Vermilion Parishes. Bulletin n. 6. Department of Conservation, Louisiana Geological Survey, New Orleans.
- Joanen, T. 1982. Rockefeller Refuge, haven for wildlife. Wildlife Education Bulletin n. 105. Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- Kartesz, J.T. & R. Kartesz. 1980. *A Synonymized Checklist of the Vascular Flora of the United States, Canada, and Greenland*. Univ. of North Carolina Press, Chapel Hill. 498 pp.
- Lasseigne, A. 1973. *Louisiana Legumes*. Southwestern Studies: Science Series, No. 1. Univ. of Southwestern Louisiana, Lafayette. 225 pp.
- Laycock, G. 1965. *The Sign of the Flying Goose*. The Natural History Press, Garden City, New York. 299 pp.
- Lellinger, D.L. 1985. *A Field Manual of the Ferns & Fern-allies of the United States & Canada*. Smithsonian Institution Press, Washington, D.C. 389 pp.
- Mabberley, D.J. 1987. *The Plant Book*. Cambridge Univ. Press, Cambridge, England. 706 pp.
- Meikle, R.D., ed. 1984. *Draft Index of Author Abbreviations Compiled at The Herbarium, Royal Botanic Gardens, Kew*. Crown Publishers, London. 257 pp.
- Radford, A.E., H.E. Ahles & C.R. Bell. 1968. *Manual of the Vascular Flora of the Carolinas*. Univ. of North Carolina Press, Chapel Hill. 1183 pp.
- Rehder, A. 1940. *Manual of Cultivated Trees and Shrubs*. The MacMillan Company, New York. 996 pp.
- Riley, L. & W. Riley. 1979. *Guide to the National Wildlife Refuges*. Anchor Press/Doubleday, Garden City, New York. 653 pp.
- Small, J.K. 1913. *Manual of the Southeastern Flora*. Univ. of North Carolina Press, Chapel Hill. 1554 pp.
- Spindler, M.L. & R.E. Noble. 1974. Fall vegetation on the spoil banks of Superior Canal. Cameron Parish, Louisiana. Proc. Louisiana Acad. Sci. 37:74-88.
- Thieret, J.W. 1980. *Louisiana Ferns and Fern Allies*. Lafayette Natural History Museum, Lafayette. 123 pp.

- Valentine, J. & R. Rudolph. 1979. Sabine National Wildlife Refuge environmental assessment. Proposed, development & rehabilitation plan; appendix A: Plants of Sabine National Wildlife Refuge. U.S. Department of the Interior, Washington, D.C. 11 pp.
- Wherry, E.T. 1972. *The Southern Fern Guide, Southeastern and Southmidland United States*. Photocopy by the New York Chapter of the American Fern Society, New York Botanical Garden, Bronx, New York. 349 pp.